

AMENDMENTS TO THE CLAIMS

Claims 1-60 (Cancelled)

Claim 61 (Currently Amended) A terminal device,

wherein said terminal device obtains, from a server device, information for using a content based on a transaction process a plurality of transaction processes,

wherein said terminal device controls use of the content based on the obtained information,

wherein each respective transaction process of the plurality of transaction processes includes successive processes including (a) a process of sending a request message from said terminal device, (b) a process of receiving a response message from the server device, and (c) a process of sending, from said terminal device, a commit message for finalizing a completion of the respective transaction process of the plurality of transaction processes,

wherein the request message sent in each respective transaction process of the plurality of transaction processes includes a transaction flag that corresponds to a currently processed successive process of the respective transaction process of the plurality of transaction processes, the transaction flag having a value of 0 or 1,

wherein said terminal device includes:

a processor; and

a memory storing instructions to be executed by said processor to cause said processor to operate as:

_____ a holding unit ~~programmed to hold~~ storing the transaction flag in said memory;

_____ a sending unit ~~programmed to send~~ sending a plurality of request messages including ~~the request message that includes~~ the transaction flag, the plurality of sent request messages including an initial request message and an intermediary request message, the plurality of request messages being sent to the server device when said processor processes the successive processes of one transaction process of the plurality of transaction processes are processed, and the initial request message being sent to the server device when said processor processes a first process of the successive processes of the one transaction process and ~~programmed to send the commit message finalizing the completion of the one transaction process;~~

_____ an inverting unit generating the transaction flag with a value that is an inverse of a value of the transaction flag included in a most recently sent request message, of the plurality of request messages, sent by said sending unit;

_____ an updating unit updating the transaction flag stored in said memory to the transaction flag generated by said inverting unit; and

a response receiving unit ~~programmed to receive~~ receiving a plurality of response messages from the server device, the plurality of response messages including an intermediary response message and a last response message, the plurality of response messages being received from the server device when said processor processes the successive processes of the one transaction process are processed;

an inverting unit programmed to generate the transaction flag with a value that is an inverse of a value of the transaction flag included in a most recently sent request message sent by said sending unit; and

an updating unit programmed to update the transaction flag held by said holding unit to the transaction flag generated by said inverting unit,

wherein, said sending unit is programmed to, when said response receiving unit receives the intermediary response message sent (i) from the server device (i) without an occurrence of a communication error and (ii) in response to the most recently sent request message sent by said sending unit,

wherein, when said response receiving unit receives the intermediary response message, said sending unit sends the intermediary request message send, in a second process of the successive processes or a following process of the one transaction process, other than a the first process of the one transaction process, out of the successive processes of the one transaction process,

such that the sent intermediary request message includes, including the transaction flag generated by said inverting unit,

such that the sent intermediary request message is sent without sending the commit message, and

such that, when said response receiving unit receives the intermediary response message sent (i) from the server device without the occurrence of the communication error and (ii) in response to the most recently sent request message sent by said sending unit, the transaction flag of the intermediary request message is used as a substitute for the commit

message being sent in response to receiving the intermediary response message-most recently sent request message, and

wherein said sending unit ~~is programmed to send~~ sends the commit message finalizing the completion of the one transaction process only in a last process of the successive processes of the one transaction process and only in response to said response receiving unit receiving the last response message.

Claim 62 (Cancelled)

Claim 63 (Cancelled)

Claim 64 (Currently Amended) The terminal device according to Claim 63,

wherein said sending unit ~~is programmed to:~~

~~sends~~ sends the intermediary request message, for a next process of the successive processes of the one transaction process, including the transaction flag inverted by said ~~update unit inverting unit~~, when the intermediary response message is received by said response receiving unit without the occurrence of the communication error; and

~~sends~~ sends again the intermediary request message, for a current process of the successive processes of the one transaction process, including the transaction flag not inverted by said ~~update inverting unit~~, when the intermediary response message is not received by said response receiving unit without the occurrence of the communication error.

Claims 65-69 (Cancelled)

Claim 70 (Currently Amended) A transaction processing method of using a terminal device that includes a memory,

wherein the terminal device obtains, from a server device, information for using a content based on a transaction process of a plurality of transaction processes,

wherein the terminal device controls use of the content based on the obtained information,

wherein each respective transaction process of the plurality of transaction processes includes successive processes including (a) a process of sending a request message from the terminal device, (b) a process of receiving a response message from the server device, and (c) a process of sending, from the terminal device, a commit message for finalizing a completion of the respective transaction process of the plurality of transaction processes,

wherein the request message sent in each respective transaction process of the plurality of transaction processes includes a transaction flag that corresponds to a currently processed successive process of the respective transaction process of the plurality of transaction processes, the transaction flag having a value of 0 or 1, and

wherein said transaction processing method includes:

storing, in the memory of the terminal device, the transaction flag;

processing, using a processor, the successive processes of one transaction process of the plurality of transaction processes ~~processed~~;

sending, using a sending unit of the terminal device, a plurality of request messages including ~~the request message that includes the transaction flag, the plurality of sent request messages including an initial request message and an intermediary request message, the plurality of request messages being sent to the server device during said processing of~~ when the

~~successive processes of the one transaction process are processed, and the initial request message being sent to the server device during said processing of a first process of the successive processes of the one transaction process;~~

~~_____ generating, using an inverting unit of the terminal device, the transaction flag with a value that is an inverse of a value of the transaction flag included in a most recently sent request message, of the plurality of request messages, sent by said sending;~~

~~_____ updating, using an updating unit of the terminal device, the transaction flag stored in the memory to the transaction flag generated by said generating of the transaction flag; and~~

~~receiving, using a receiving unit of the terminal device, a plurality of response messages from the server device, the plurality of response messages including an intermediary response message and a last response message, the plurality of response messages being received from the server device during said processing of—when the successive processes of the one transaction process are processed,~~

~~_____ generating, using an inverting unit of the terminal device, the transaction flag with a value that is an inverse of a value of the transaction flag included in a most recently sent request message sent by said sending;~~

~~_____ updating, using an updating unit of the terminal device, the transaction flag stored in the memory to the transaction flag generated by said generating of the transaction flag;~~

~~_____ wherein performing a control so that, when said receiving includes of the plurality of response messages receives receiving the intermediary response message sent (i) from the server device, (i) without an occurrence of a communication error and (ii) in response to the most recently sent request message,~~

~~wherein, when said receiving receives the intermediary response message, said sending includes sending the intermediary request message is sent, by the sending unit of the terminal device, in a second process of the successive processes or a following process of the one transaction process, other than a the first process of the one transaction process, out of the successive processes of the one transaction process,~~

~~such that the sent intermediary request message sent according to said performing of the control including includes the transaction flag generated by said generating of the transaction flag, and~~

~~such that said sending of the intermediary request messages excludes performing of the control excluding a sending of the commit message along with the intermediary request message sent according to said performing of the control, and~~

~~such that, when said receiving receives the intermediary response message sent (i) from the server device without the occurrence of the communication error and (ii) in response to the most recently sent request message, the transaction flag of the intermediary request message is used as a substitute for the commit message being sent in response to receiving the intermediary response message-most recently sent request message, and~~

~~wherein said sending includes sending, using the sending unit of the terminal device, the commit message finalizing the completion of the one transaction process only in a last process of the successive processes of the one transaction process and only in response to receiving, by said receiving, the last response message.~~

Claim 71 (Cancelled)

Claim 72 (Cancelled)

Claim 73 (Currently Amended) A computer-readable recording medium having a program recorded thereon, the program for causing a plurality of transaction processes to be executed in a terminal device,

wherein the terminal device obtains, from a server device, information for using a content based on a transaction process of the plurality transaction processes,

wherein the terminal device controls use of the content based on the obtained information,

wherein each respective transaction process of the plurality of transaction processes includes successive processes including (a) a process of sending a request message from the terminal device, (b) a process of receiving a response message from the server device, and (c) a process of sending, from the terminal device, a commit message for finalizing a completion of the respective transaction process of the plurality of transaction processes,

wherein the request message sent in each respective transaction process of the plurality of transaction processes includes a transaction flag that corresponds to a currently processed successive process of the respective transaction process of the plurality of transaction processes, the transaction flag having a value of 0 or 1, and

wherein the program causes a computer in the terminal device to function as:

a holding unit ~~that holds~~ storing the transaction flag;

a sending unit ~~that sends~~ sending a plurality of request messages including ~~the request message that includes~~ the plurality of sent request messages including an initial request message and an intermediary request message, the plurality of request

messages being sent to the server device when the terminal device processes the successive processes of one transaction process of the plurality of transaction processes are processed, and the initial request message being sent to the server device when the terminal device processes a first process of the successive processes of the one transaction process; and that sends the commit message finalizing the completion of the one transaction process;

an inverting unit generating the transaction flag with a value that is an inverse of a value of the transaction flag included in a most recently sent request message, of the plurality of request messages, sent by the said sending unit;

an updating unit updating the transaction flag stored in the holding unit to the transaction flag generated by said inverting unit; and

a response receiving unit ~~that receives~~ receiving a plurality of response messages from the server device, the plurality of response messages including an intermediary response message and a last response message, the plurality of response messages being received from the server device when the terminal device processes the successive processes of the one transaction process are processed;

~~an inverting unit that generates the transaction flag with a value that is an inverse of a value of the transaction flag included in a most recently sent request message sent by the sending unit;~~

~~an updating unit that updates the transaction flag held by said holding unit to the transaction flag generated by said inverting unit;~~

wherein, ~~when~~ said response receiving unit receives the intermediary response message sent ~~(+)~~ from the server device (i) without an occurrence of a communication error and (ii) in response to the most recently sent request message sent by said sending unit.

wherein, when said response receiving unit receives the intermediary response message,
said sending unit sends the intermediary request message~~said sending unit sends, in a second~~
~~process of the successive processes or a following process of the one transaction process, other~~
~~than a the first process of the one transaction process, out of the successive processes of the one~~
transaction process,

such that the sent intermediary request message includes,~~including the~~
transaction flag generated by said inverting unit,

such that the sent intermediary request message is sent without sending the
commit message, and

such that, when said response receiving unit receives the intermediary response
message ~~sent (i) from the server device without the occurrence of the communication error and~~
~~(ii) in response to the most recently sent request message sent by said sending unit,~~ the
transaction flag of the intermediary request message is used as a substitute for the commit
message being sent in response to receiving the intermediary response message~~most recently~~
~~sent request message,~~ and

wherein said sending unit sends the commit message finalizing the completion of the one
transaction process only in a last process of the successive processes of the one transaction
process and only in response to said response receiving unit receiving the last response message.

Claim 74 (Cancelled)